SEQUENCE LISTING

<110> COUGHLIN, Shaun R.
ISHIHARA, Hiroaki
CONNOLLY, Andrew

<120> PROTEASE-ACTIVATED RECEPTOR 3 AND USES THEREOF

<130> 220002060310

<140> US 09/208,629
<141> 1998-12-08

<150> US 08/742,440
<151> 1996-10-30

<160> 27

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 1224
<212> DNA
<213> Mus Musculus

<400> 1
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atgtttcaga caactcagca aagccaacct taactattaa gagttttaat gggggtcccc 180
aaaatacctt tgaagaattc ccactttctg acatagaggg ctggacagga gccaccacaa 240
ctataaaagc ggagtgtccc gaggacagta tttcaactct ccacgtgaat aatgctacca 300
taggatacct gagaagttcc ttaagtaccc aagtgatacc tgccatctat atcctgctgt 360
ttgtggttgg tgtaccatcc aacatcgtga ccctgtggaa actctcctta aggaccaaat 420
ccatcagtct ggtcatcttt cacaccaacc tggccatcgc agatctcctt ttctgtgtca 480
cactgccatt taagatcgcc taccatctca atggcaacaa ctgggtattt ggcgaggtca 540
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cttgcatggg catcaaccgc tacctggcca cggctcaccc tttcacatac cagaagctgc 660
ccaaacgcag cttctccttg ctcatgtgtg gcatagtgtg ggtcatggtt ttcttataca 720
tgctgccctt tgtcatcctg aagcaggagt accacctcgt ccactcagag atcaccacct 780
gccacgatgt cgtcgacgcg tgcgagtccc catcatcctt ccgattctac tacttcgtct 840
ccttagcatt ctttgggttc ctcatcccgt ttgtgatcat catcttctgt tacacgactc 900
tcatccacaa acttaaatca aaggatcgga tatggctggg ctacatcaag gccgtcctcc 960
tcatccttgt gattttcaca atttgctttg cccccaccaa catcatactc gtaatccacc 1020
atgccaacta ctactaccac aataccgaca gcttgtactt tatgtatctt attgctctgt 1080
gcctggggag cctgaatagc tgcctagatc cattccttta ctttgtcatg tcgaaagttg 1140
tagatcagct taatccttag tcggcaatgg caagaccact ttagagacca aggagagata 1200
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<210> 2
<211> 1124
<212> DNA
<213> Mus Musculus

<220>
<221> misc_feature

<222> 117, 118, 119, 120, 121, 122, 123, 350, 351, 442,
443, 444, 595, 596, 597, 663, 785, 859, 860, 861, 862, 863,
864
<223> n = A, T, C, or G

<400> 2
ccatatgcta atatttcctt tcaattacag gcataaatgt ttcagacaac tcagcaaagc 60
caaccttaac tattaagagt tttaatgggg gtccccaaaa tacctttgaa gaattcnnnn 120
nnntacaact ctccatgtga ataatgctac catgggatac ctgagaagtt ccttaagtac 180
caaagtgata cctgccatct acatcctggt gtttgtgatt ggtgtaccag cgaacatcgt 240
gaccctgtgg aaactctcct caaggaccaa atccatctgt ctggtcatct ttcacaccaa 300
cctggccatc gcggatctcc ttttctgtgt cacgctgccg tttaagatcn ncctaccatc 360
tcaatggcaa caactgggta tttggcgagg tcatgtgccg gatcaccacg gtcgttttct 420
acggcaacat gtactgcgct annntcctga tcctcacctg catgggcatc aaccgctacc 480
tggccacggc tcacccttтc acataccaga agctgcccaa acgcagcttc tccatgctca 540
tgtgtggcat ggtgtgggtc atggttttct tatacatgct gccctttgtc atccnnnaag 600
caggagtacc acctcgtcca ctccgagatc accacctgcc acgatgtcgt cgacgcgtgc 660
gantccccat catccttccg attctactac ttcgtctcct tagcattctt tgggttcctc 720
atcccgtttg tgatcatcat cttctgttac acgactctca tccacaaact taaatcaaaa 780
gatcngatat ggctgggcta catcaaggcc gtcctcctca tccttgtgaa tttcaccatc 840
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gcatggcacc atcagctcaa tttttaattt tttaatttta atttaattta attttatgtt 960
tttgagacag agcctcactg tgtagtcctg gctggcctgg ctggttctct atttagacca 1020
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aggtctggca agcgctccat ttttcagctc ctctgcaaca gtgc 1124

<210> 3
<211> 369
<212> PRT
<213> Mus Musculus

<400> 3
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Thr Val Cys Gln Ser Gly Ile Asn Val Ser Asp Asn Ser Ala Lys Pro
            20   25   30
Thr Leu Thr Ile Lys Ser Phe Asn Gly Gly Pro Gln Asn Thr Phe Glu
        35   40   45
Glu Phe Pro Leu Ser Asp Ile Glu Gly Trp Thr Gly Ala Thr Thr Thr
    50   55   60
Ile Lys Ala Glu Cys Pro Glu Asp Ser Ile Ser Thr Leu His Val Asn
65   70   75   80
Asn Ala Thr Ile Gly Tyr Leu Arg Ser Ser Leu Ser Thr Gln Val Ile
                85   90   95
Pro Ala Ile Tyr Ile Leu Leu Phe Val Val Gly Val Pro Ser Asn Ile
            100   105   110
Val Thr Leu Trp Lys Leu Ser Leu Arg Thr Lys Ser Ile Ser Leu Val
        115   120   125
Ile Phe His Thr Asn Leu Ala Ile Ala Asp Leu Leu Phe Cys Val Thr
    130   135   140
Leu Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn Trp Val Phe
145   150   155   160
Gly Glu Val Met Cys Arg Ile Thr Thr Val Val Phe Tyr Gly Asn Met
                165   170   175
Tyr Cys Ala Ile Leu Ile Leu Thr Cys Met Gly Ile Asn Arg Tyr Leu
            180   185   190
Ala Thr Ala His Pro Phe Thr Tyr Gln Lys Leu Pro Lys Arg Ser Phe

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        195                 200                 205
Ser Leu Leu Met Cys Gly Ile Val Trp Val Met Val Phe Leu Tyr Met
    210                 215                 220
Leu Pro Phe Val Ile Leu Lys Gln Glu Tyr His Leu Val His Ser Glu
225                 230                 235                 240
Ile Thr Thr Cys His Asp Val Val Asp Ala Cys Glu Ser Pro Ser Ser
                245                 250                 255
Phe Arg Phe Tyr Tyr Phe Val Ser Leu Ala Phe Phe Gly Phe Leu Ile
            260                 265                 270
Pro Phe Val Ile Ile Ile Phe Cys Tyr Thr Thr Leu Ile His Lys Leu
        275                 280                 285
Lys Ser Lys Asp Arg Ile Trp Leu Gly Tyr Ile Lys Ala Val Leu Leu
    290                 295                 300
Ile Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Thr Asn Ile Ile Leu
305                 310                 315                 320
Val Ile His His Ala Asn Tyr Tyr Tyr His Asn Thr Asp Ser Leu Tyr
                325                 330                 335
Phe Met Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn Ser Cys Leu
            340                 345                 350
Asp Pro Phe Leu Tyr Phe Val Met Ser Lys Val Val Asp Gln Leu Asn
        355                 360                 365
Pro
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<210> 4
<211> 1224
<212> DNA
<213> Homo Sapiens

<400> 4
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aaagccctca tctttgcagc tgctggcctc ctgcttctgt tgcccacttt ttgtcagagt 120
ggcatggaaa atgatacaaa caacttggca aagccaacct tacccattaa gacctttcgt 180
ggagctcccc caaattcttt tgaagagttc ccctttctg ccttggaagg ctggacagga 240
gccacgatta ctgtaaaaat taagtgccct gaagaaagtg cttcacatct ccatgtgaaa 300
aatgctacca tggggtacct gaccagctcc ttaagtacta aactgatacc tgccatctac 360
ctcctggtgt ttgtagttgg tgtcccggcc aatgctgtga ccctgtggat gcttttcttc 420
aggaccagat ccatctgtac cactgtattc tacaccaacc tggccattgc agattttctt 480
ttttgtgtta cattgccctt taagatagct tatcatctca atgggaacaa ctgggtattt 540
ggagaggtcc tgtgccgggc caccacagtc atcttctatg gcaacatgta ctgctccatt 600
ctgctccttg cctgcatcag catcaaccgc tacctggcca tcgtccatcc tttcacctac 660
cggggcctgc ccaagcacac ctatgccttg gtaacatgtg gactggtgtg ggcaacagtt 720
ttcttatata tgctgccatt tttcatactg aagcaggaat attatcttgt tcagccagac 780
atcaccacct gccatgatgt tcacaacact tgcgagtcct catctccctt ccaactctat 840
tacttcatct ccttggcatt ctttggattc ttaattccat ttgtgcttat catctactgc 900
tatgcagcca tcatccggac acttaatgca tacgatcata gatggttgtg gtatgttaag 960
gcgagtctcc tcatccttgt gatttttacc atttgctttg ctccaagcaa tattattctt 1020
attattcacc atgctaacta ctactacaac aacactgatg gcttatattt tatatatctc 1080
atagctttgt gcctgggtag tcttaatagt tgcttagatc cattccttta ttttctcatg 1140
tcaaaaacca gaaatcactc cactgcttac cttacaaaat agtgaaatga tcttagagaa 1200
caaggacagc catcacagag aacg 1224

<210> 5
<211> 1102
<212> DNA
<213> Homo Sapiens

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cgtggagctc ccccaaattc ttttgaagag ttccccttt ctgccttgga aggctggaca 120
ggagccacga ttactgtaaa aattaagtgc cctgaagaaa gtgcttcaca tctccatgtg 180
aaaaatgcta ccatggggta cctgaccagc tccttaagta ctaaactgat acctgccatc 240
tacctcctgg tgtttgtagt tggtgtcccg gccaatgctg tgaccctgtg gatgcttttc 300
ttcaggacca gatccatctg taccactgta ttctacacca acctggccat tgcagatttt 360
ctttttgtg ttacattgcc ctttaagata gcttatcatc tcaatgggaa caactgggta 420
tttggagagg tcctgtgccg ggccaccaca gtcatcttct atggcaacat gtactgctcc 480
attctgctcc ttgcctgcat cagcatcaac cgctacctgg ccatcgtcca tcctttcacc 540
taccggggcc tgcccaagca cacctatgcc ttggtaacat gtggactggt gtgggcaaca 600
gttttcttat atatgctgcc atttttcata ctgaagcagg aatattatct tgttcagcca 660
gacatcacca cctgccatga tgttcacaac acttgcgagt cctcatctcc cttccaactc 720
tattacttca tctccttggc attctttgga ttcttaattc catttgtgct tatcatctac 780
tgctatgcag ccatcatccg gacacttaat gcatacgatc atagatggtt gtggtatgtt 840
aaggcgagtc tcctcatcct tgtgatttt accatttgct ttgctccaag caatattatt 900
cttattattc accatgctaa ctactactac aacaacactg atggcttata ttttatatat 960
ctcatagctt tgtgcctggg tagtcttaat agttgcttag atccattcct ttatttctc 1020
atgtcaaaaa ccagaaatca ctccactgct taccttacaa aatagtgaaa tgatcttaga 1080
gaacaaggac agccatcaca ga 1102

<210> 6
<211> 374
<212> PRT
<213> Homo Sapiens

<400> 6
Met Lys Ala Leu Ile Phe Ala Ala Ala Gly Leu Leu Leu Leu Leu Pro
 1   5   10   15
Thr Phe Cys Gln Ser Gly Met Glu Asn Asp Thr Asn Asn Leu Ala Lys
            20   25   30
Pro Thr Leu Pro Ile Lys Thr Phe Arg Gly Ala Pro Pro Asn Ser Phe
        35   40   45
Glu Glu Phe Pro Phe Ser Ala Leu Glu Gly Trp Thr Gly Ala Thr Ile
    50   55   60
Thr Val Lys Ile Lys Cys Pro Glu Glu Ser Ala Ser His Leu His Val
65   70   75   80
Lys Asn Ala Thr Met Gly Tyr Leu Thr Ser Ser Leu Ser Thr Lys Leu
                85   90   95
Ile Pro Ala Ile Tyr Leu Leu Val Phe Val Val Gly Val Pro Ala Asn
            100   105   110
Ala Val Thr Leu Trp Met Leu Phe Phe Arg Thr Arg Ser Ile Cys Thr
        115   120   125
Thr Val Phe Tyr Thr Asn Leu Ala Ile Ala Asp Phe Leu Phe Cys Val
    130   135   140
Thr Leu Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn Trp Val
145   150   155   160
Phe Gly Glu Val Leu Cys Arg Ala Thr Thr Val Ile Phe Tyr Gly Asn
                165   170   175
Met Tyr Cys Ser Ile Leu Leu Leu Ala Cys Ile Ser Ile Asn Arg Tyr
            180   185   190
Leu Ala Ile Val His Pro Phe Thr Tyr Arg Gly Leu Pro Lys His Thr
        195   200   205
Tyr Ala Leu Val Thr Cys Gly Leu Val Trp Ala Thr Val Phe Leu Tyr
    210   215   220

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Met Leu Pro Phe Phe Ile Leu Lys Gln Glu Tyr Tyr Leu Val Gln Pro
225                 230                 235                 240
Asp Ile Thr Thr Cys His Asp Val His Asn Thr Cys Glu Ser Ser Ser
                245                 250                 255
Pro Phe Gln Leu Tyr Tyr Phe Ile Ser Leu Ala Phe Phe Gly Phe Leu
            260                 265                 270
Ile Pro Phe Val Leu Ile Ile Tyr Cys Tyr Ala Ala Ile Ile Arg Thr
        275                 280                 285
Leu Asn Ala Tyr Asp His Arg Trp Leu Trp Tyr Val Lys Ala Ser Leu
    290                 295                 300
Leu Ile Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Ser Asn Ile Ile
305                 310                 315                 320
Leu Ile Ile His His Ala Asn Tyr Tyr Tyr Asn Asn Thr Asp Gly Leu
                325                 330                 335
Tyr Phe Ile Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn Ser Cys
            340                 345                 350
Leu Asp Pro Phe Leu Tyr Phe Leu Met Ser Lys Thr Arg Asn His Ser
        355                 360                 365
Thr Ala Tyr Leu Thr Lys
    370
```

<210> 7
<211> 425
<212> PRT
<213> Homo Sapiens

<400> 7

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Met Gly Pro Arg Arg Leu Leu Leu Val Ala Ala Cys Phe Ser Leu Cys
 1               5                  10                  15
Gly Pro Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys
            20                  25                  30
Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro
        35                  40                  45
Asn Asp Lys Tyr Glu Pro Phe Trp Glu Asp Glu Glu Lys Asn Glu Ser
    50                  55                  60
Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu
65                  70                  75                  80
Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu
                85                  90                  95
Thr Ser Ser Trp Leu Thr Leu Phe Val Pro Ser Val Tyr Thr Gly Val
            100                 105                 110
Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile
        115                 120                 125
Leu Lys Met Lys Val Lys Lys Pro Ala Val Val Tyr Met Leu His Leu
    130                 135                 140
Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser
145                 150                 155                 160
Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg
                165                 170                 175
Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu
            180                 185                 190
Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met
        195                 200                 205
Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu
    210                 215                 220
Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys
```

```
225                 230                 235                 240
Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp
                245                 250                 255
Val Leu Asn Glu Thr Leu Leu Glu Gly Tyr Tyr Ala Tyr Tyr Phe Ser
            260                 265                 270
Ala Phe Ser Ala Val Phe Phe Phe Val Pro Leu Ile Ile Ser Thr Val
        275                 280                 285
Cys Tyr Val Ser Ile Ile Arg Cys Leu Ser Ser Ser Ala Val Ala Asn
    290                 295                 300
Arg Ser Lys Lys Ser Arg Ala Leu Phe Leu Ser Ala Ala Val Phe Cys
305                 310                 315                 320
Ile Phe Ile Ile Cys Phe Gly Pro Thr Asn Val Leu Leu Ile Ala His
                325                 330                 335
Tyr Ser Phe Leu Ser His Thr Ser Thr Thr Glu Ala Ala Tyr Phe Ala
            340                 345                 350
Tyr Leu Leu Cys Val Cys Val Ser Ser Ile Ser Ser Cys Ile Asp Pro
        355                 360                 365
Leu Ile Tyr Tyr Tyr Ala Ser Ser Glu Cys Gln Arg Tyr Val Tyr Ser
    370                 375                 380
Ile Leu Cys Cys Lys Glu Ser Ser Asp Pro Ser Ser Tyr Asn Ser Ser
385                 390                 395                 400
Gly Gln Leu Met Ala Ser Lys Met Asp Thr Cys Ser Ser Asn Leu Asn
                405                 410                 415
Asn Ser Ile Tyr Lys Lys Leu Leu Thr
            420                 425
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<210> 8
<211> 394
<212> PRT
<213> Homo Sapiens

<400> 8

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Met Arg Ser Pro Ser Ala Ala Trp Leu Leu Gly Ala Ala Ile Leu Leu
 1               5                  10                  15
Ala Ala Ser Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser
            20                  25                  30
Ser Lys Gly Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val
        35                  40                  45
Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe
    50                  55                  60
Ser Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro Ile
65                  70                  75                  80
Val Tyr Thr Ile Val Phe Val Val Gly Leu Pro Ser Asn Gly Met Ala
                85                  90                  95
Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile
            100                 105                 110
Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe
        115                 120                 125
Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly
    130                 135                 140
Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr
145                 150                 155                 160
Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val
                165                 170                 175
Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile
            180                 185                 190
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```
Gly Ile Ser Leu Ala Ile Trp Leu Leu Ile Leu Leu Val Thr Ile Pro
        195                 200                 205
Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr
    210                 215                 220
Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Pro Phe
225                 230                 235                 240
Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe Leu Thr Ala
                245                 250                 255
Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser Ala Met Asp
            260                 265                 270
Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu Ile Val Thr
        275                 280                 285
Val Leu Ala Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn Leu Leu Leu
    290                 295                 300
Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr
305                 310                 315                 320
Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn Ser Cys Ile
                325                 330                 335
Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg Asp His Ala
            340                 345                 350
Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys Gln Met Gln
        355                 360                 365
Val Ser Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser Ser Tyr Ser
    370                 375                 380
Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr
385                 390
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<210> 9
<211> 11
<212> PRT
<213> Homo Sapiens

<400> 9
Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu Gln
 1   5   10

<210> 10
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<221> misc_feature
<222> 3, 12, 18, 21, 24
<223> n = Inosine

<221> misc_feature
<222> 22, 27
<223> n = A, C, G, or T

<400> 10
gtntacatgc tnmacytngc nntngcnga 29

<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<221> misc_feature
<222> 6, 9, 12, 15, 21
<223> n = Inosine

<221> misc_feature
<222> 24
<223> n = A, C, G, or T

<400> 11
ggatanacna cngcnadrwa nckntc 26

<210> 12
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 12
Asp Tyr Lys Asp Asp Asp
1 5

<210> 13
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 13
Met Asp Ser Lys Gly Ser Ser Gln Lys Gly Ser Arg Leu Leu Leu Leu
1 5 10 15
Leu Val Val Ser Asn Leu Leu Leu Cys Gln Gly Val Val Ser Asp Tyr
20 25 30
Lys Asp Asp Asp Asp Val Glu
35

<210> 14
<211> 5
<212> PRT
<213> Homo Sapiens

<400> 14
Phe Glu Glu Phe Pro
1 5

<210> 15
<211> 5
<212> PRT
<213> Homo Sapiens

<400> 15
Phe Glu Glu Ile Pro
 1   5

<210> 16
<211> 5
<212> PRT
<213> Homo Sapiens

<400> 16
Tyr Glu Pro Phe Trp
 1   5

<210> 17
<211> 9
<212> PRT
<213> Homo sapiens

<400> 17
Thr Phe Arg Gly Ala Pro Pro Asn Ser
 1   5

<210> 18
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 18
Val Glu His His His His His His
 1   5

<210> 19
<211> 23
<212> PRT
<213> Homo Sapiens

<400> 19
Leu Pro Ile Lys Thr Phe Arg Gly Ala Pro Pro Asn Ser Phe Glu Glu
 1   5   10   15
Phe Pro Phe Ser Ala Leu Glu
            20

<210> 20
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20
Leu Pro Ile Lys Pro Phe Arg Gly Ala Pro Pro Asn Ser Phe Glu Glu
1 5 10 15
Phe Pro Phe Ala Leu Glu
20

<210> 21
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<221> VARIANT
<222> 1
<223> Xaa = beta-homoarginine

<400> 21
Xaa Thr Phe Arg Gly Ala Pro Pro Asn Ser Phe Glu Glu Phe Pro Phe
1 5 10 15
Ser Ala Leu Glu
20

<210> 22
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<221> VARIANT
<222> 1
<223> Xaa = D-phenylalanine

<400> 22
Xaa Pro Arg Pro Phe Arg Gly Ala Pro Pro Asn Ser Phe Glu Glu Phe
1 5 10 15
Pro Phe Ser Ala Leu Glu
20

<210> 23
<211> 4
<212> PRT
<213> Homo Sapiens

<400> 23
Leu Pro Ile Lys
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<210> 24
<211> 404
<212> PRT
<213> Mus Musculus

<400> 24
Thr Leu Tyr Thr Gln His Pro Val Ala Gly Ser Gln Asp Ile Lys Met
 1   5   10   15
Lys Ile Leu Ile Leu Val Ala Ala Gly Leu Leu Phe Leu Pro Val Thr
            20   25   30
Val Cys Gln Ser Gly Ile Asn Val Ser Asp Asn Ser Ala Lys Pro Thr
        35   40   45
Leu Thr Ile Lys Ser Phe Asn Gly Gly Pro Gln Asn Thr Phe Glu Glu
    50   55   60
Phe Pro Leu Ser Asp Ile Glu Gly Trp Thr Gly Ala Thr Thr Thr Ile
65   70   75   80
Lys Ala Glu Cys Pro Glu Asp Ser Ile Ser Thr Leu His Val Asn Asn
                85   90   95
Ala Thr Ile Gly Tyr Leu Arg Ser Ser Leu Ser Thr Gln Val Ile Pro
            100   105   110
Ala Ile Tyr Ile Leu Leu Phe Val Val Gly Val Pro Ser Asn Ile Val
        115   120   125
Thr Leu Trp Lys Leu Ser Leu Arg Thr Lys Ser Ile Ser Leu Val Ile
    130   135   140
Phe His Thr Asn Leu Ala Ile Ala Asp Leu Leu Phe Cys Val Thr Leu
145   150   155   160
Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn Trp Val Phe Gly
                165   170   175
Glu Val Met Cys Arg Ile Thr Thr Val Val Phe Tyr Gly Asn Met Tyr
            180   185   190
Cys Ala Ile Leu Ile Leu Thr Cys Met Gly Ile Asn Arg Tyr Leu Ala
        195   200   205
Thr Ala His Pro Phe Thr Tyr Gln Lys Leu Pro Lys Arg Ser Phe Ser
    210   215   220
Leu Leu Met Cys Gly Ile Val Trp Val Met Val Phe Leu Tyr Met Leu
225   230   235   240
Pro Phe Val Ile Leu Lys Gln Glu Tyr His Leu Val His Ser Glu Ile
                245   250   255
Thr Thr Cys His Asp Val Val Asp Ala Cys Glu Ser Pro Ser Ser Phe
            260   265   270
Arg Phe Tyr Tyr Phe Val Ser Leu Ala Phe Phe Gly Phe Leu Ile Pro
        275   280   285
Phe Val Ile Ile Ile Phe Cys Tyr Thr Thr Leu Ile His Lys Leu Lys
    290   295   300
Ser Lys Asp Arg Ile Trp Leu Gly Tyr Ile Lys Ala Val Leu Leu Ile
305   310   315   320
Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Thr Asn Ile Ile Leu Val
                325   330   335
Ile His His Ala Asn Tyr Tyr Tyr His Asn Thr Asp Ser Leu Tyr Phe
            340   345   350
Met Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn Ser Cys Leu Asp

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        355                 360                 365
Pro Phe Leu Tyr Phe Val Met Ser Lys Val Val Asp Gln Leu Asn Pro
    370                 375                 380
Ser Ala Met Ala Arg Pro Leu Arg Pro Arg Arg Asp Ile Trp Glu Asp
385                 390                 395                 400
Ile His Ala Trp
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<212> PRT
<213> Homo Sapiens

<400> 25

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Ile Lys Met Lys Ala Leu Ile Phe Ala Ala Ala Gly Leu Leu Leu Leu
            20                  25                  30
Leu Pro Thr Phe Cys Gln Ser Gly Met Glu Asn Asp Thr Asn Asn Leu
        35                  40                  45
Ala Lys Pro Thr Leu Pro Ile Lys Thr Phe Arg Gly Ala Pro Pro Asn
    50                  55                  60
Ser Phe Glu Glu Phe Pro Phe Ser Ala Leu Glu Gly Trp Thr Gly Ala
65                  70                  75                  80
Thr Ile Thr Val Lys Ile Lys Cys Pro Glu Glu Ser Ala Ser His Leu
                85                  90                  95
His Val Lys Asn Ala Thr Met Gly Tyr Leu Thr Ser Ser Leu Ser Thr
            100                 105                 110
Lys Leu Ile Pro Ala Ile Tyr Leu Leu Val Phe Val Val Gly Val Pro
        115                 120                 125
Ala Asn Ala Val Thr Leu Trp Met Leu Phe Phe Arg Thr Arg Ser Ile
    130                 135                 140
Cys Thr Thr Val Phe Tyr Thr Asn Leu Ala Ile Ala Asp Phe Leu Phe
145                 150                 155                 160
Cys Val Thr Leu Pro Phe Lys Ile Ala Tyr His Leu Asn Gly Asn Asn
                165                 170                 175
Trp Val Phe Gly Glu Val Leu Cys Arg Ala Thr Thr Val Ile Phe Tyr
            180                 185                 190
Gly Asn Met Tyr Cys Ser Ile Leu Leu Leu Ala Cys Ile Ser Ile Asn
        195                 200                 205
Arg Tyr Leu Ala Ile Val His Pro Phe Thr Tyr Arg Gly Leu Pro Lys
    210                 215                 220
His Thr Tyr Ala Leu Val Thr Cys Gly Leu Val Trp Ala Thr Val Phe
225                 230                 235                 240
Leu Tyr Met Leu Pro Phe Phe Ile Leu Lys Gln Glu Tyr Tyr Leu Val
                245                 250                 255
Gln Pro Asp Ile Thr Thr Cys His Asp Val His Asn Thr Cys Glu Ser
            260                 265                 270
Ser Ser Pro Phe Gln Leu Tyr Tyr Phe Ile Ser Leu Ala Phe Phe Gly
        275                 280                 285
Phe Leu Ile Pro Phe Val Leu Ile Ile Tyr Cys Tyr Ala Ala Ile Ile
    290                 295                 300
Arg Thr Leu Asn Ala Tyr Asp His Arg Trp Leu Trp Tyr Val Lys Ala
305                 310                 315                 320
Ser Leu Leu Ile Leu Val Ile Phe Thr Ile Cys Phe Ala Pro Ser Asn
                325                 330                 335
```

```
Ile Ile Leu Ile Ile His His Ala Asn Tyr Tyr Tyr Asn Asn Thr Asp
            340                 345                 350
Gly Leu Tyr Phe Ile Tyr Leu Ile Ala Leu Cys Leu Gly Ser Leu Asn
        355                 360                 365
Ser Cys Leu Asp Pro Phe Leu Tyr Phe Leu Met Ser Lys Thr Arg Asn
    370                 375                 380
His Ser Thr Ala Tyr Leu Thr Lys Asn Asp Leu Arg Glu Gln Gly Gln
385                 390                 395                 400
Pro Ser Gln Arg Thr
                405
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<400> 26
Leu Thr Pro Lys
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